Introduction

I decided to create this repository to display my relational databases, consisting of both my PlayStation & Nintendo video game collections.

I earned a Higher Diploma in Data Analytics from ATU Galway, along with the IT Specialist Certificate in Databases from Pearson Vue.

I thought of my video game collections as the perfect example of implementing my learnings from the above courses.

I have set up local T-SQL databases via Microsoft SQL Server 2014, and I am planning on implementing the databases on a website for remote access soon.

Data compilation and analysis were carried out to discover insights in relation to various matters, such as pricing & purchases of games per year or per month:

- Video game receipts issued to my Gmail account at times of purchase
- Raw data temporarily entered & compiled in Google Sheets files over a number of years, to be added to the database via Microsoft SQL Server 2014
- PSPrices, a video game deals tracker to help gamers find the best video game bargains.
- PSNProfiles, a video game tracker that logs video gaming activities

Initial Setup

SQL Statements

The sub-repository: **playstation/statements**, contains the following SQL files with queries created in relation to database design & management:

- **CREATE DATABASE & TABLES.sql**
  - Creates tables named **Dates, Finances, Origins, Platinums & Trophies**, containing various fields/columns of data.
- **INSERT INTO Dates.sql**
- **INSERT INTO Finances.sql**
- **INSERT INTO Origins.sql**
- **INSERT INTO Platinums.sql**
- **INSERT INTO Trophies.sql**
  - These INSERT INTO SQL files contain all info for data entry into each table.
- **SELECT FROM.sql**
  - Selects data from the tables, results are output & saved in XLSX format.
- **UPDATE TABLES.sql**
  - Updates values within the tables, such as correcting typos & numerical errors (misspelling of developers or prices).

SQL Output

The sub-repository: playstation/output, contains the following XLSX files.
The results of SQL queries made in Microsoft SQL Server 2014 are saved in XLSX format & cross-checked via Google Sheets:

- **complete_tables.xlsx**
- **dates_&_finances_all-time.xlsx**
- **dates_&_finances_monthly.xlsx**
- **origins.xlsx**
- **platinums & trophies.xlsx**
- **wishlist.xlsx**

Questions

I noted the following topics in order to gain further insight into the collected data:

- ## Spending & Savings
  - The total number of video games & consoles in the collection
  - The total number of games purchased per console
  - Video games purchased per year
  - Video games purchased per month
  - The total number of video games redeemed as gifts & via subscription
- ## Countries & Developers
  - The total number of distinct countries & developers in the collection
  - The total number of games developed per distinct country
  - The total number of games developed per distinct developer
- ## Value for Money
  - The total hours & value for money per game in the collection:
    - Value for Money = **paid_price / hours**
- ## Purchases & Backlog
  - **TBC** - Queries to SELECT from tables to see filtered information regarding various dates such as release dates & finish dates of specific games
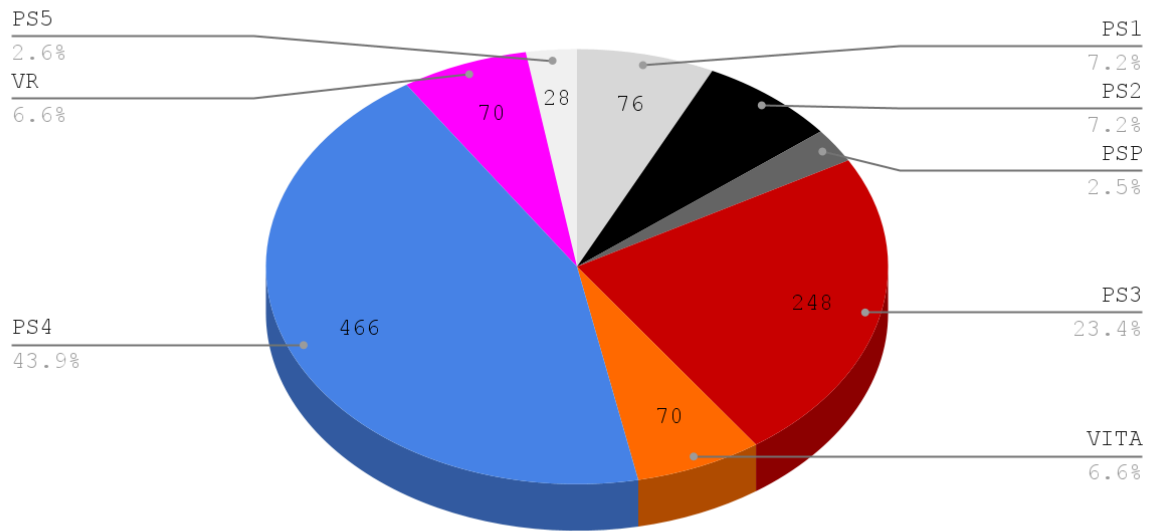- ## Trophies
  - Platinum, Gold, Silver & Bronze trophies earned from 2009 to present.
    - Data to be updated monthly.

Spending & Savings

- **complete_tables.xlsx & origins/consoles.xlsx:**
  - ○ **1,061** distinct video games across **8** distinct consoles in the collection.
    - ■ **PS1, PS2, PSP, PS3, VITA, PS4, PSVR, PS5**

Updated as of 28th Feb 2025

Console	Value
PS5	2.6%
VR	6.6%
PS4	43.9%
PS1	7.2%
PS2	7.2%
PSP	2.5%
PS3	23.4%
VITA	6.6%

Pie chart values: 28, 76, 70, 466, 248, 70

Updated as of 28th Feb 2025

Console	Value
PS1	76
PS2	76
PSP	27
PS3	248
VITA	70
PS4	466
VR	70
PS5	28
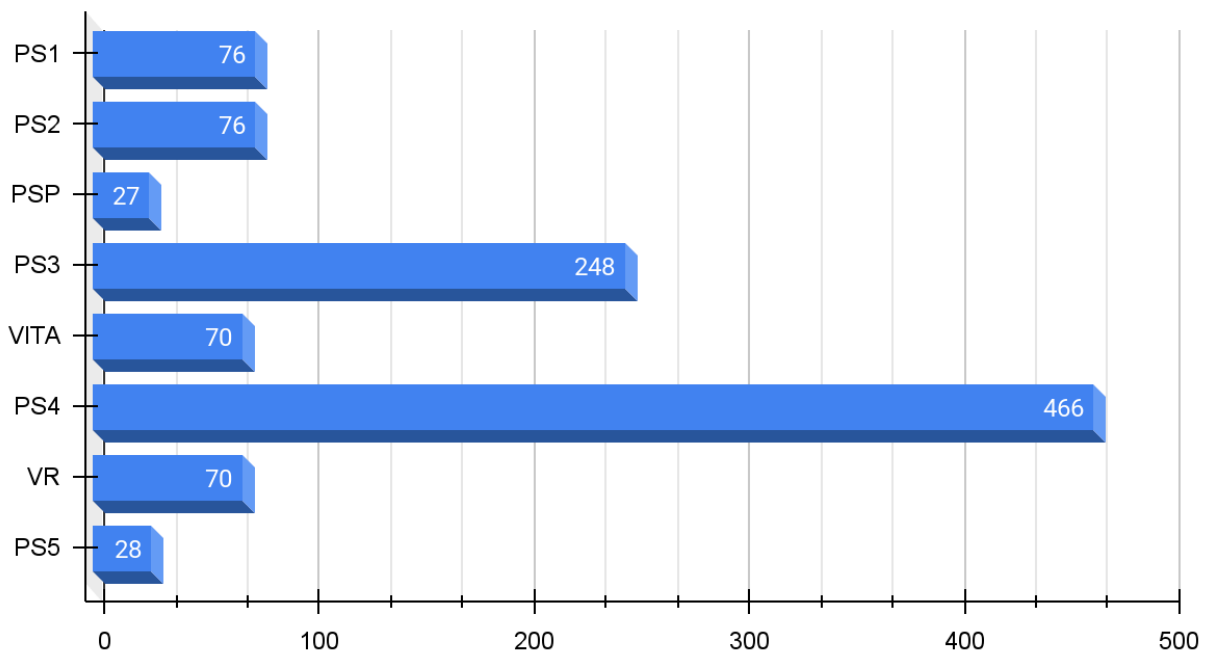
- **dates_&_*finances_all-time*.xlsx:**

Updated as of 28th Feb 2025
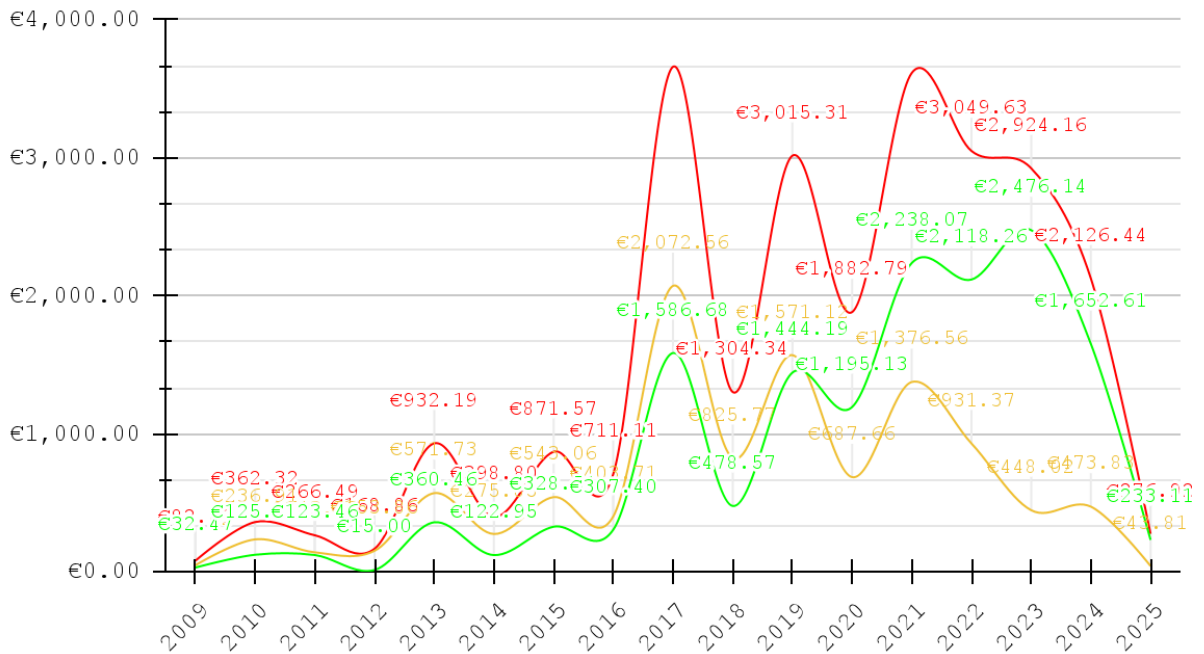
Year	Full_Price	Paid_Price	Savings
2009	€82.11	€49.64	€32.47
2010	€362.32	€236.91	€125.41
2011	€266.49	€143.03	€123.46
2012	€168.86	€153.86	€15.00
2013	€932.19	€571.73	€360.46
2014	€398.80	€275.85	€122.95
2015	€871.57	€543.06	€328.51
2016	€711.11	€403.71	€307.40
2017	€3,659.24	€2,072.56	€1,586.68
2018	€1,304.34	€825.77	€478.57
2019	€3,015.31	€1,571.12	€1,444.19
2020	€1,882.79	€687.66	€1,195.13
2021	€3,614.63	€1,376.56	€2,238.07
2022	€3,049.63	€931.37	€2,118.26
2023	€2,924.16	€448.02	€2,476.14
2024	€2,126.44	€473.83	€1,652.61
2025	€276.92	€43.81	€233.11
Totals	€25,646.91	€10,808.49	€14,838.42

- The full prices of all games on recorded purchase dates came to a total of **€25,646.91.**
- Paid prices (birthday & Christmas gifts along with PlayStation Plus) came to **€10,808.49**.
- This resulted in total savings of **€14,838.42** (**58%** of the full price):
    - The years 2017-2025 accounted for **€13,422.76** (**90%**) of total savings.

- How many video games were purchased in selected months?
  - **dates_&_finances_monthly.xlsx:**

Updated as of 28th Feb 2025
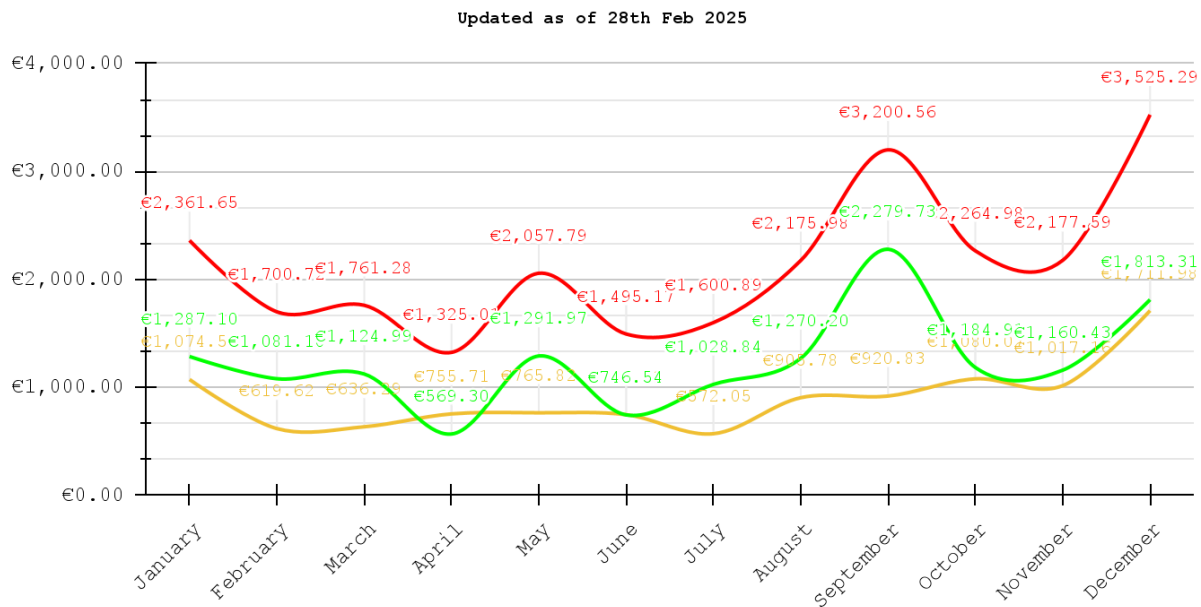
Month	Full_Price	Paid_Price	Savings
January	€2,361.65	€1,074.55	€1,287.10
February	€1,700.72	€619.62	€1,081.10
March	€1,761.28	€636.29	€1,124.99
April	€1,325.01	€755.71	€569.30
May	€2,057.79	€765.82	€1,291.97
June	€1,495.17	€748.63	€746.54
July	€1,600.89	€572.05	€1,028.84
August	€2,175.98	€905.78	€1,270.20
September	€3,200.56	€920.83	€2,279.73
October	€2,264.98	€1,080.07	€1,184.91
November	€2,177.59	€1,017.16	€1,160.43
December	€3,525.29	€1,711.98	€1,813.31
Totals	€25,646.91	€10,808.49	€14,838.42

- **September** saw the most game purchases & most savings, my birthday month.
- **August** was also a busy month, as a result of redeeming pre-orders prior to my birthday.
- **December & January** were also busy months as a result of the Christmas season with gifts received, along with the January sales for the best deals to redeem via the gifts.

- How many games were purchased via gift cards & PlayStation Plus?
  - **dates_&_finances_all-time.xlsx:**

Updated as of 28th Feb 2025
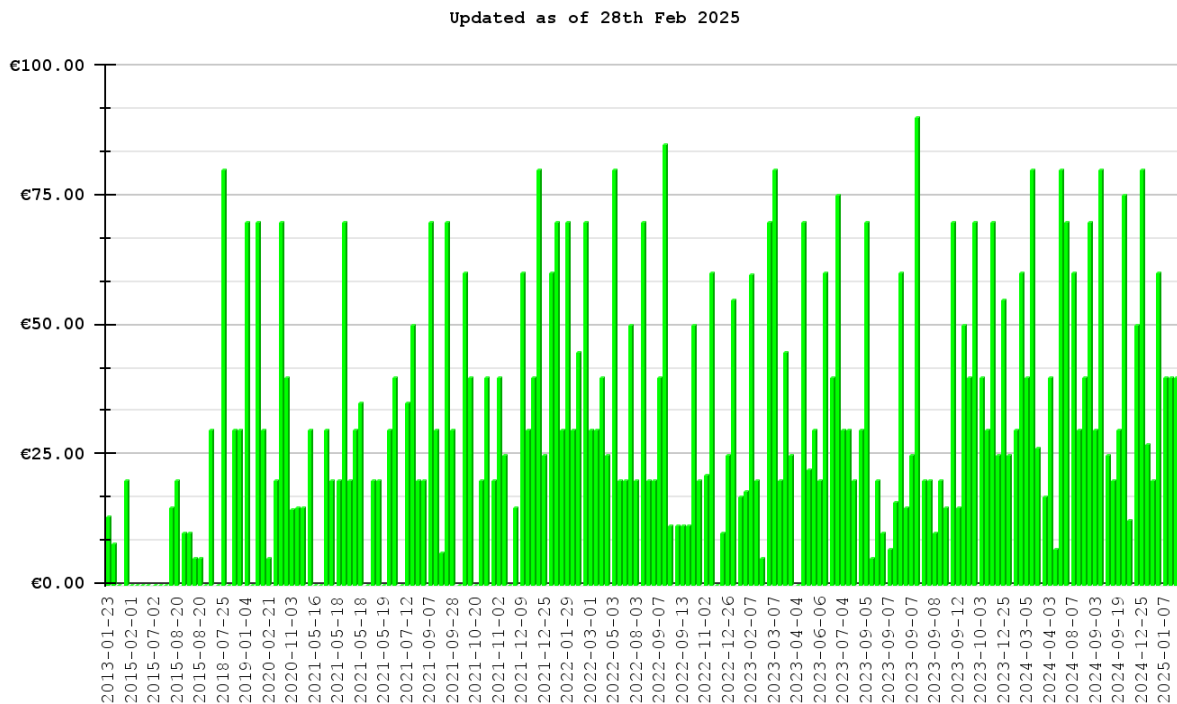
- **187** games were purchased via birthday or Christmas gifts, along with PlayStation Plus.
- The total savings compared to the full price came to **€5,985.83** (an average of **€32.01** per game).
- These savings account for approximately **40%** of the total savings.

Countries & Developers

- How many distinct countries & developers make up the game collection?
  - **origins.xlsx:**
    - <mark>529</mark> distinct developers from <mark>47</mark> distinct countries:
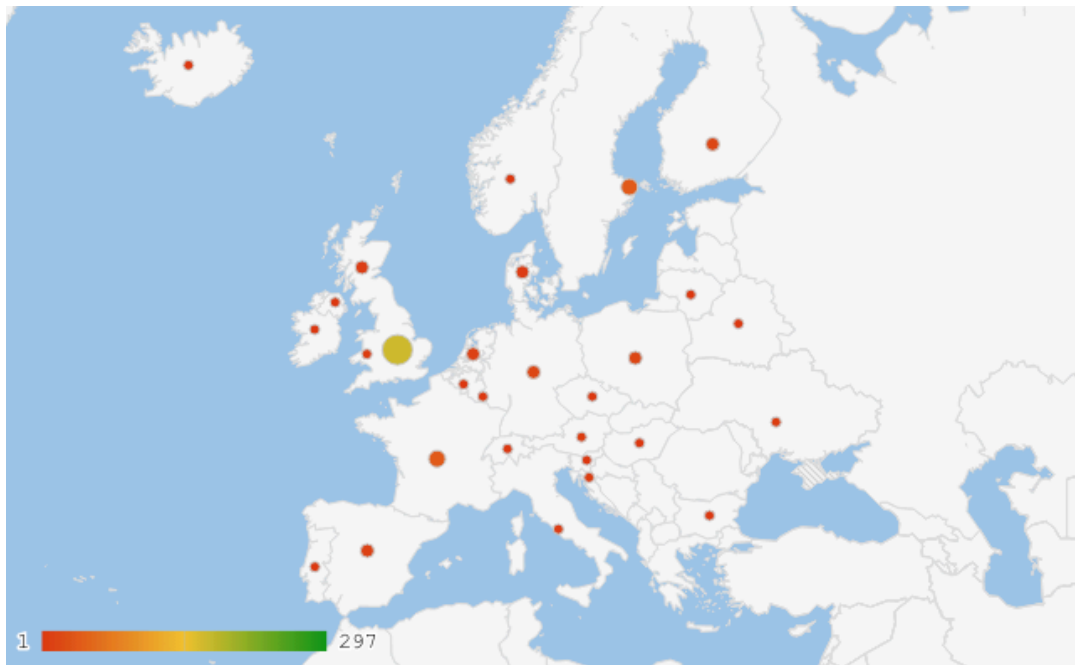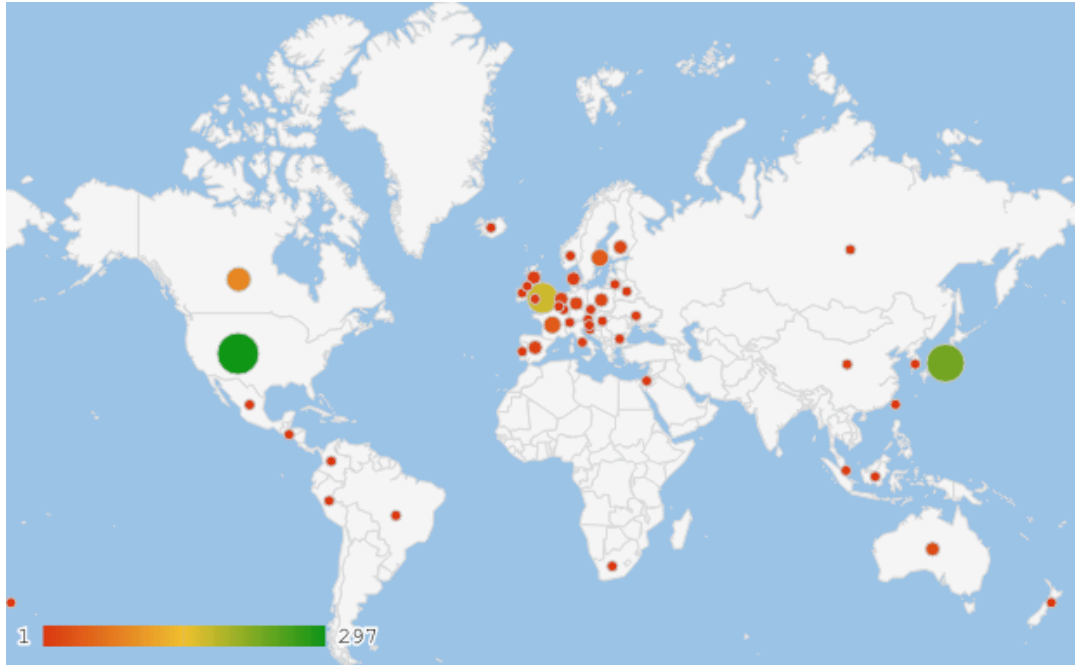
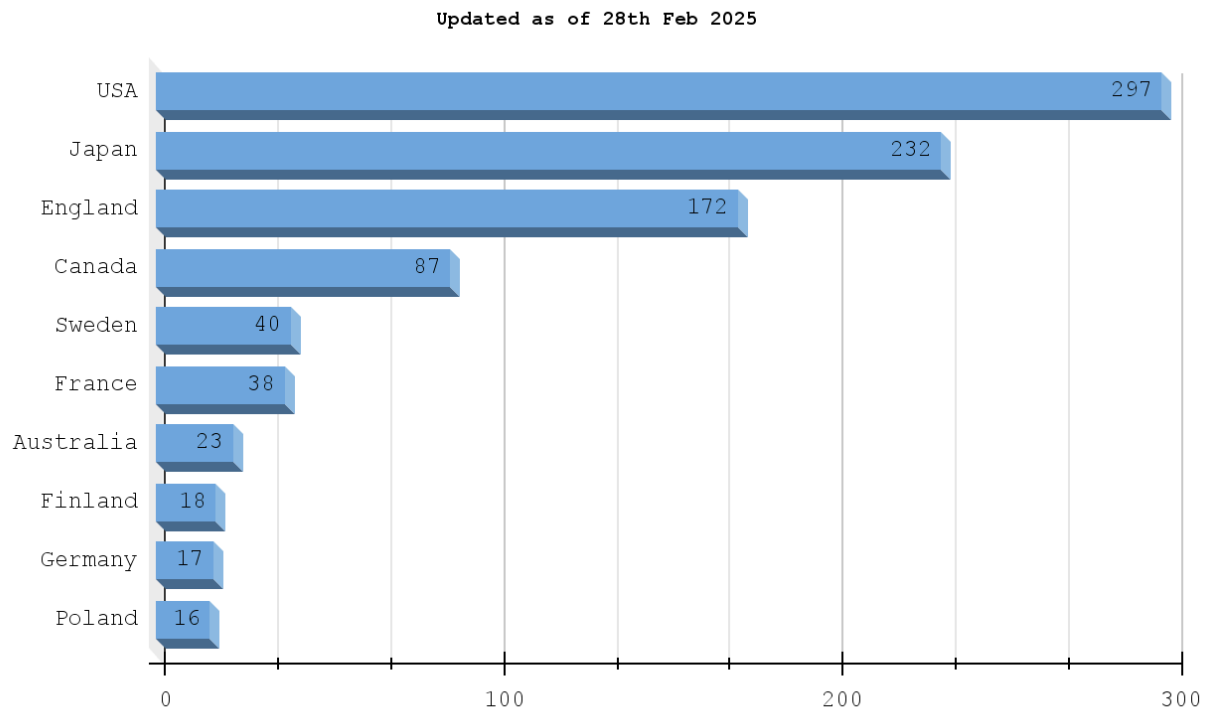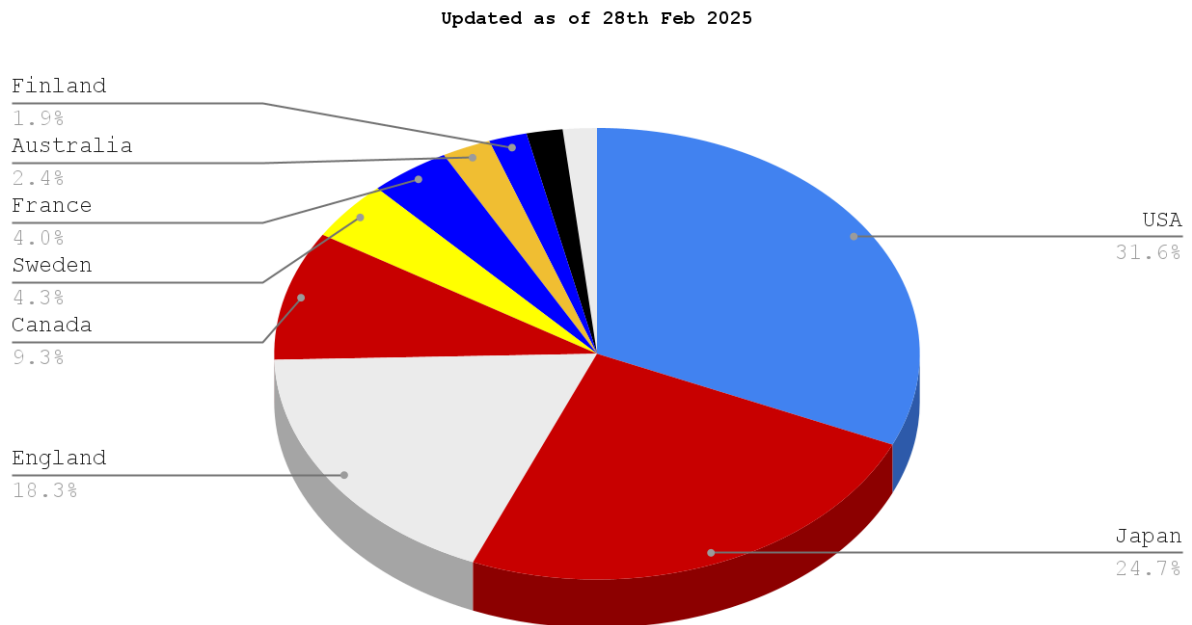| Country	Games	Country	Games
USA	297	Czech Republic	3
Japan	232	Hungary	2
England	172	Korea Republic	2
Canada	87	Belarus	2
Sweden	40	Lithuania	2
France	38	Northern Ireland	2
Australia	23	Norway	2
Finland	18	New Zealand	1
Germany	17	Israel	1
Poland	16	Switzerland	1
Spain	12	Brazil	1
Netherlands	11	Peru	1
Scotland	9	Portugal	1
Denmark	9	El Salvador	1
Italy	8	Mexico	1
Russia	6	Luxembourg	1
Ukraine	6	Slovenia	1
China	5	Taiwan	1
Austria	5	Iceland	1
Croatia	5	Belgium	1
Wales	4	Bulgaria	1
Singapore	4	South Africa	1
Indonesia	3	Colombia	1
Republic of Ireland	3		

- Which countries & developers have contributed the most video games in the collection?
  - **origins.xlsx:**

Updated as of 28th Feb 2025

Finland
1.9%
Australia
2.4%
France
4.0%
Sweden
4.3%
Canada
9.3%

England
18.3%

USA
31.6%

Japan
24.7%

Updated as of 28th Feb 2025

Country	Value
USA	297
Japan	232
England	172
Canada	87
Sweden	40
France	38
Australia	23
Finland	18
Germany	17
Poland	16

○ **origins.xlsx:**

Updated as of 28th Feb 2025

Telltale Games
6.5%
Ubisoft Montreal
7.0%
Naughty Dog
7.0%

Team Asobi (Japan
7.5%

Konami
7.5%

SEGA
7.9%

TT Games
8.4%

14

15

15

16

16

17

18

18

23

62

Capcom
29.0%

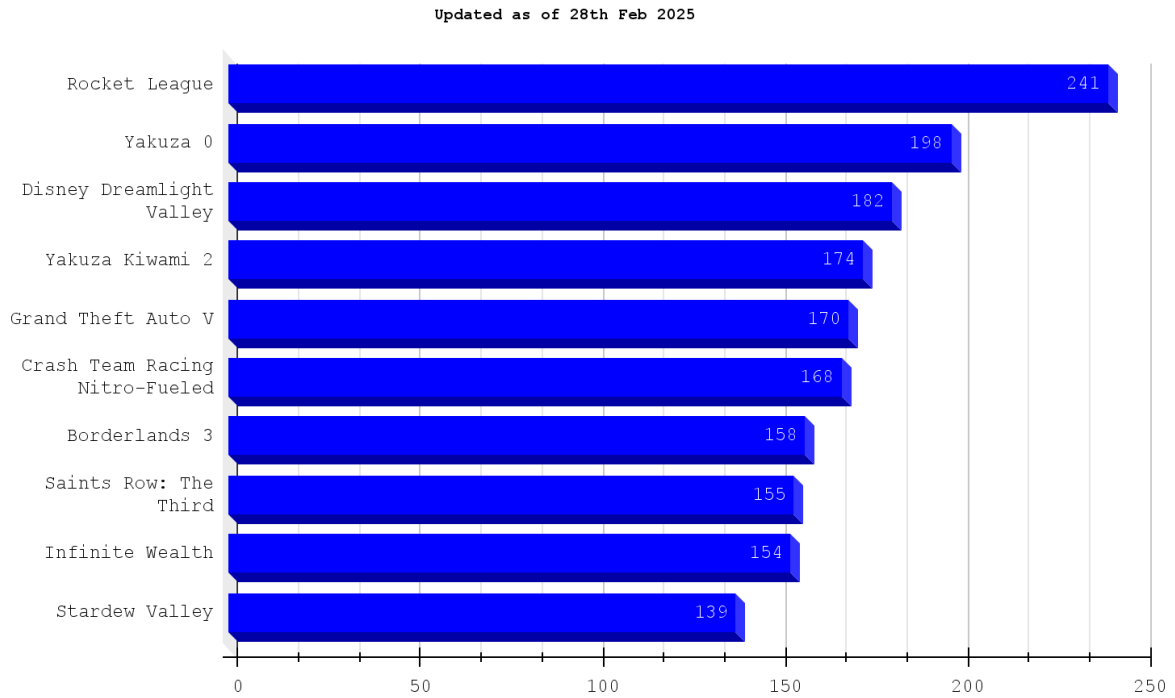Square Enix
10.7%

Insomniac Games
8.4%

FURTHER DATA ANALYSIS OF COUNTRIES & DEVELOPERS TBC:
● Which games each developer & country are responsible for (group by country and developer similar to above, while listing each entry in an XLSX file)?
  ○ **origins/finances.xlsx to be incorporated in README ASAP.**
  ○ **Ranking System based on hours played & value per money TBC.**

● How many games were developed by AAA, SME or Indie developers?
  ○ Research developers & available resources to determine if AAA, SME or Indie.
  ○ Discuss my personal favourite games based on all the above charts.

Value for Money

- Which games have accumulated the most amount of hours played?
  - **dates_&_finances_all-time.xlsx:**

Updated as of 28th Feb 2025

Game	Hours
Rocket League	241
Yakuza 0	198
Disney Dreamlight Valley	182
Yakuza Kiwami 2	174
Grand Theft Auto V	170
Crash Team Racing Nitro-Fueled	168
Borderlands 3	158
Saints Row: The Third	155
Infinite Wealth	154
Stardew Valley	139

- Which games have the best value for money (**paid price per hour played**)?
  - **dates_&_finances_all-time.xlsx:**

Updated as of 28th Feb 2025

Game	Value
F1 2021	103
Hogwarts Legacy	93
Final Fantasy VII: Rebirth (2024)	89
F1 23	82
Marvel's Spider-Man	82
The Last of Us Part II	75
Like a Dragon: Ishin	72
Saints Row (2022)	62
GRID Legends	60
Days Gone	57
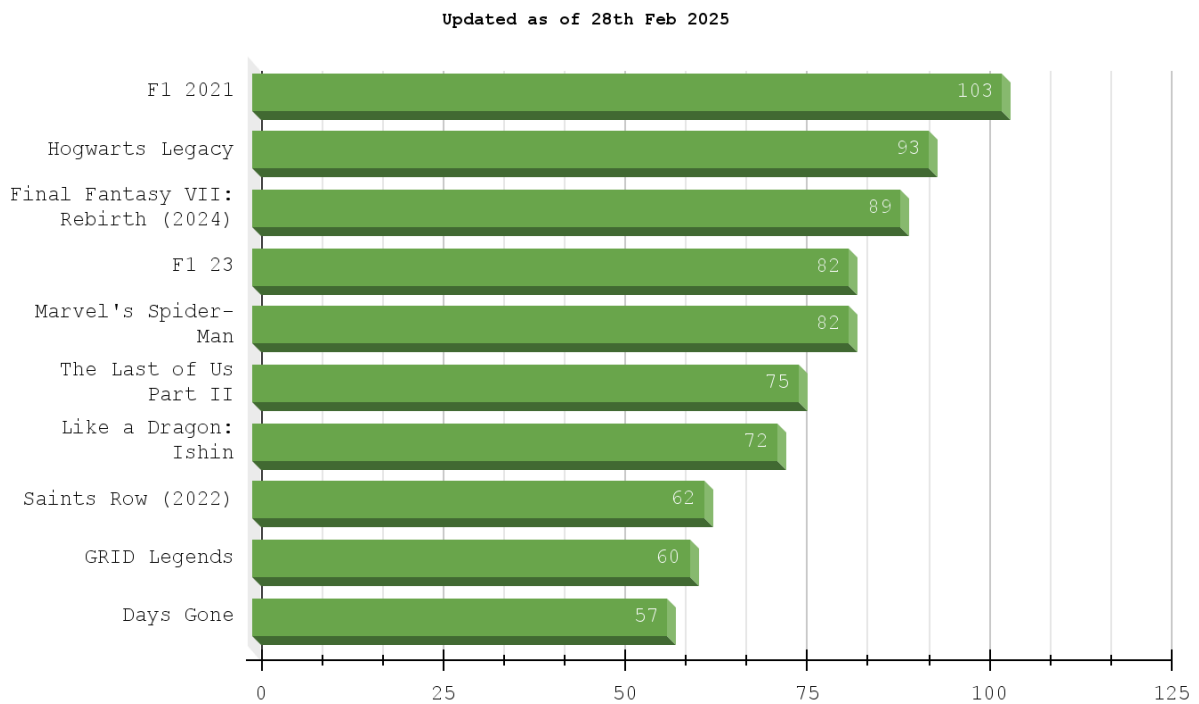
- **Like a Dragon (Yakuza)**
  - **dates_&_finances_all-time.xlsx:**

Updated as of 28th Feb 2025

| Game	Value
Yakuza 0	198
Yakuza Kiwami 2	174
Infinite Wealth	154
Yakuza 7	130
Yakuza Kiwami	119
Ishin	72
Yakuza 5	68
Judgment	63
Lost Judgment	52
Dead Souls	50
Gaiden	47
Yakuza 3	45
Yakuza 6	42
Yakuza 4	38
Pirate Yakuza	38
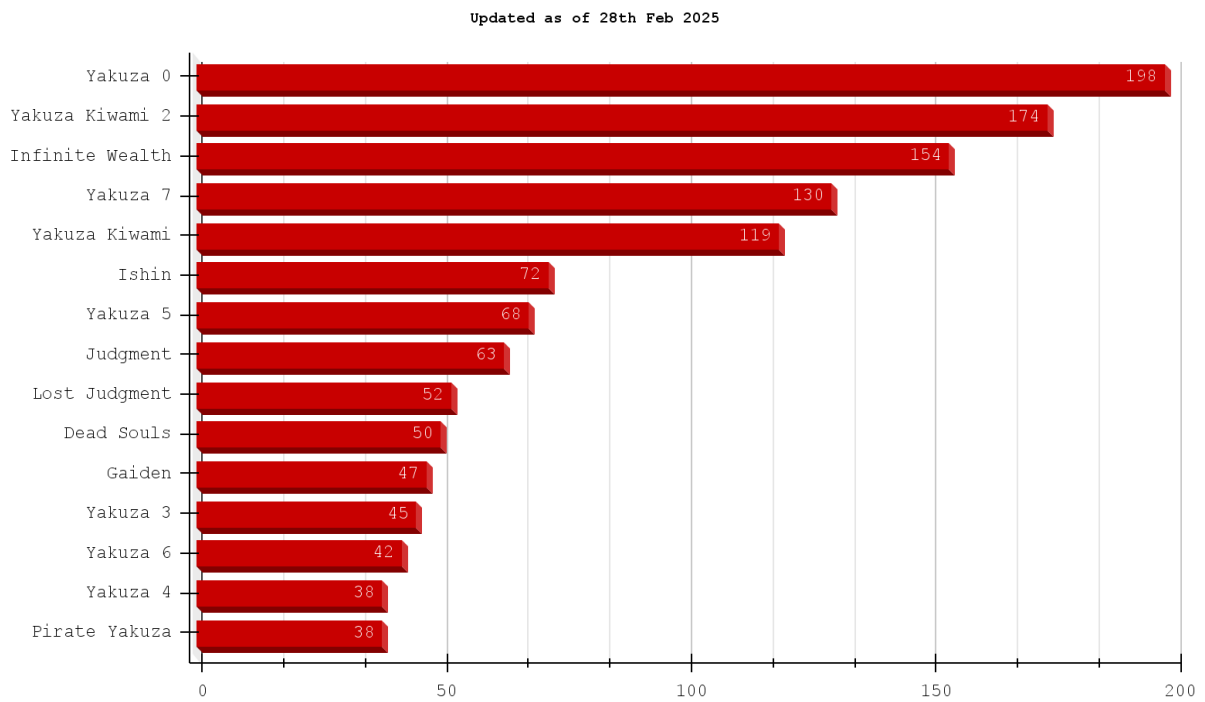
- Information to be written on this page detailing a favourite game series of mine, Like a Dragon (Yakuza):
  - **TBC**

Annual Game Log & Backlog

- Various columns have been added to the dates table to track the following aspects:
    - **release_date** - when the game was released over the decades
    - **purchase_date** - when I purchased the game since the release_date
    - **start_date** - when I started playing the game since the purchase_date
    - **finish_date** - when I have finished playing the game

Trophies

- **platinums & trophies.xlsx:**

Updated as of 28th Feb 2025
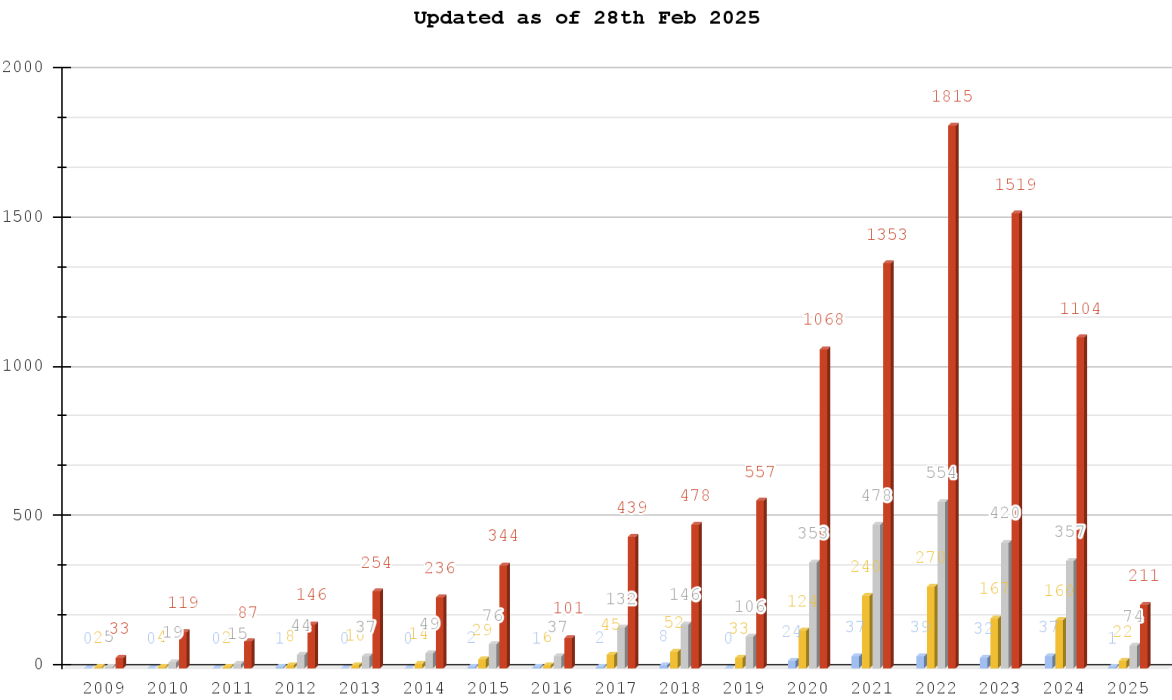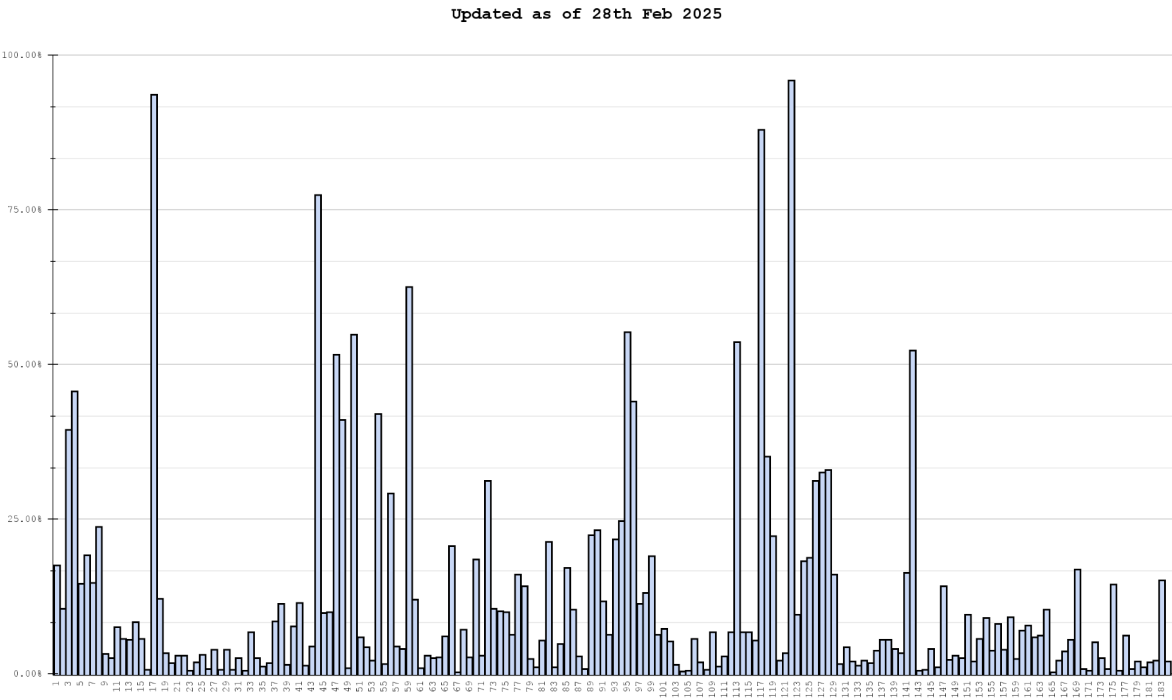
References

PSPrices

- No one likes missing a good sale!
- PSPrices are a video game deals tracker based in London, who gather offers from the digital storefronts of PlayStation, Xbox and Nintendo, to help gamers find the best video game bargains from anywhere in the world.
- Upon signing up for free, I decided to contribute a one-off lifetime payment to the developers of PSPrices in order to show my gratitude for their service.
- While similar sites would show game deals, PSprices also allow you to track your entire game collection across different consoles.
- Just pick your favourite games, click Subscribe, and PSPrices will send you an email when the prices of games drop in the sales, as well as upcoming games.
- It's a neat way to keep track of what you own and even rediscover some old favourites.
- Join the PSprices community today at **hello@psprices.com**
- hoff_jager PSN Game Wishlist - **https://psprices.com/wish-list/HQkF82kb**

PSNProfiles

- PSNProfiles are a video game tracker that logs how recently you have played your video games, along with in-game trophy achievements earned towards video game completion.
- Upon signing up for free, I decided to contribute a one-off lifetime payment to the developers of PSNProfiles, in order to show my gratitude in addition to unlocking the Premium features of their website, such as:
  - Frequent trophy server synchronization
  - Digital trophy cabinet displaying my Top 10 rare trophies achieved
- hoff_jager PSN Gamer Profile - **https://psnprofiles.com/hoff_jager**